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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No. 10/698,730
Filing Date October 31, 2003
Confirmation No. 1575
Inventor Yuichi Iikubo, et al.
Assignee PCBU Services, Inc.
Group Art Unit 1621
Examiner Elvis O. Price
Attorney's Docket No. PC3-060
Title Processes for Purifying Chlorofluorinated Compounds

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Reference - - See attached Form PTO-1449

The attached Form PTO-1449 is submitted in compliance with 37 CFR §§ 1.56, 1.97 and 1.98. No admission is made regarding whether all the submitted references are prior art.

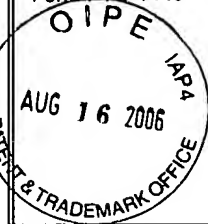
The listed references were cited by, or submitted to, the Office in the parent, co-pending application of the above-identified application. The above-identified application is a continuation or divisional application of co-pending application Serial No. 09/966,158, filed September 28, 2001. Such prior disclosure is sufficient for the above-identified application as far as copies of the references are concerned. 37 C.F.R. § 1.98(d) and MPEP § 609(2).

Citation of these references is respectfully requested.

Respectfully submitted,

Dated: 8/16/06


By: [Signature]
Robert C. Hyta
Reg. No. 46,791

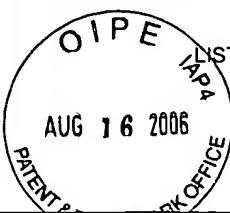
Form PTO-1449 		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. PC3-060		SERIAL NO. 10/698,730	
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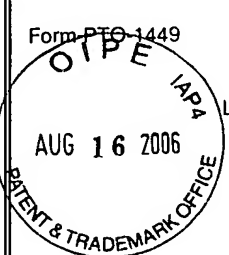
U.S. PATENT DOCUMENTS							
*Examiner's Initials	AA	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	1,132,636	03/1915	Taylor, et al			
	AB	1,926,395	09/1933	T. Midgley, Jr.			
	AC	1,926,396	09/1933	Midgley, Jr.			
	AD	2,021,981	11/1935	Bichowsky			
	AE	2,413,696	01/1947	Downing, et al			
	AF	2,456,028	12/1948	Simons			
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	AH	3,080,430	03/1963	Cohen			
	AI	3,479,286	11/1969	Gambaretto, et al			
	AJ	3,656,553	04/1972	Rainaldi, et al			
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	AM	3,844,354	10/1974	Larsen			
	AN	4,014,799	03/1977	Owens			
	AO	4,225,404	09/1980	Dietrich, et al			
	AP	4,226,728	10/1980	Kung			
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	AR	4,459,213	04/1972	Uchida, et al			
	AS	4,536,298	08/1985	Kamei, et al.			
	AT	4,668,407	05/1987	Gerard, et al			
	AU	4,810,403	03/1989	Bivens, et al			
	AV	4,826,610	05/1989	Thacker			

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U.S. PATENT DOCUMENTS							
*Examiner's Initials	AA	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	4,851,595	07/1989	Gumprecht			
	AB	4,937,398	06/1990	Tung, et al			
	AC	4,945,119	07/1990	Smits, et al			
	AD	4,954,271	09/1990	Green			
	AE	5,040,609	08/1991	Dougherty, et al			
	AF	5,084,190	01/1992	Fernandez			
	AG	5,115,868	05/1992	Dougherty Jr., et al			
	AH	5,141,654	08/1992	Fernandez			
	AI	5,562,861	10/1996	Nimitz, et al.			
	AJ	5,730,894	03/1998	Minor			
	AK	6,065,547	05/2000	Ellis, et al.			
	AL	6,291,729	09/2001	Rao			
	AM	6,346,203 B1	02/2002	Robin, et al.			
	AN	6,461,530	10/2002	Robin, et al.			
	AO	6,478,979	11/2002	Rivers, et al.			
	AP	6,763,894	07/2004	Schoenrock			
	AQ	6,849,194	02/2005	Robin, et al.			
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FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AA	CA 902590A	08/1962	Canada				
	AB	EP 0 039 471 A1	11/1981	Europe				
	AC	EP 0 253 410	01/1998	EPO				
	AD	EP 0 383 443 A2	08/1990	Europe				
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	AH	RU 2068718 C1	08/1990	Russia				
	AJ	1,546,505	09/1970	Germany				
	AJ	WO 91/02564	03/1991	WIPO				
	AK	WO 91/04766	04/1991	PCT				
	AL	WO 91/12853	09/1991	PCT				
	AM	WO 93/24586	12/1993	PCT				
	AN	WO 98/37043	08/1998	PCT				
	AO	WO 96/40834	12/1996	PCT				
	AP	WO 03/029173	04/2003	PCT				
	AQ	GB 1,132,636	11/1968	UK				
	AR	GB 2,370,768	07/2002	UK				
	AS	WO 02/40102 A2/A3	05/2002	PCT				
	AT	WO 02/078788 A2/A3	10/2002	PCT				
	AU	WO 02/078790 A2/A3	10/2002	PCT				
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FOREIGN PATENT DOCUMENTS, CON'T.				FILING DATE October 31, 2003		GROUP 1621	


AA	JP 51034595	09/1974	Japan				
AB	JP 57-93070-A	06/1982	Japan				
AC	Laid Open Hei 1-115999	05/1989	Japan				
AD	Sho 50-50864 (Laid Open Sho 51-131100)	04/1975	Japan				
AE	Sho 48-19093	03/1973	Japan				
AF	Sho 52-25679	07/1977	Japan				
AG	Laid Open Hei 4-96770	03/1992	Japan				
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)					
	AA	McFarland, Mack, "Chlorofluorocarbons and ozone", 1989, <i>Environ. Sci. Technol.</i> , Vol. 23, No. 10, pp. 1203-1207			
	AB	Malcomb, J.E., "Report 1177 Interim Report Vaporizing Fire Extinguishing Agents", August 1950, <i>Engineer Research and Development Laboratories, Petroleum and Distribution Branch</i> , pp. i-90			
	AC	Wuebbles, Donald J., "The Relative Efficiency of a Number of Halocarbons for Destroying Stratospheric Ozone", January 1981, <i>Lawrence Livermore National Laboratory, University of California</i> , pp. 1-11			
	AD	Wuebbles, Donald J., "Chlorocarbon Emission Scenarios: Potential Impact on Stratospheric Ozone", February 1983, <i>Journal of Geophysical Research</i> , Vol. 88, No. C2, pp. 1433-1443			
	AE	Molina, et al., "Ultraviolet Absorption Cross Sections of Several Brominated Methanes and Ethanes of Atmospheric Interest", February 1982, <i>J. Phys. Chem.</i> , 1982, 86, 2672-2676			
	AF	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Report of the Halons Technical Options Committee", June 1989, Draft for Peer Review			
	AG	Larsen, Eric R., "Halogenated Fire Extinguishants: Flame Suppression by a Physical Mechanism?", 1975, <i>Halogen Research Laboratory, The Dow Chemical Corporation, Midland, Michigan</i> , pp. 376-402			
	AH	Belles, Frank E., "Chemical Action of Halogenated Agents in Fire Extinguishing", 1955, <i>National Advisory Committee for Aeronautics</i> , Technical Note 3565, pp. 1-30			
	AI	Kauschka, Von Gunther, et al., "Calculation of thermodynamic substance data and reaction balance with poly- and perhalogen hydrocarbons", October 1976, <i>Chemistry Section of the Humboldt University in Berlin</i> , Vol. 10, pp. 1-22 (translated)			
	AJ	Moore, Jeanne P., et al., "Halon Alternatives Extinguishment Testing", 1989, <i>Center for Technologies to Protect Stratospheric Ozone, New Mexico Engineering Institute, University of New Mexico, Albuquerque, New Mexico</i> , presented at the International Conference on CFC & Halon Alternatives, October 10-11, 1989, Washington, D.C., pp. 1-8			
	AK	Smart, B.E., "Fluorocarbons", 1983, <i>The Chemistry of Functional Groups</i> , Supplement D, Chapter 14, pp. 603-655			
	AL	Chemical Encyclopedia, "Bolshaya Rossiiskaya Entsiklopediya" Moscow, 1992, <i>Scientific Publishing House</i> , Vol. 3, Med-Pol			
	AM	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Final Report of the Halons - Technical Options Committee", August 1989			
	AN	Reid, Robert C., "The properties of gases and liquids", 1987, pp. 153-157			
	AO	"Part IV The Evolution of the Montreal Protocol", 1987, Section 4.1 and 4.2, pp. 265-275			
	AP	Hynes, Robert G., et al., "Shock-Tube Study of the Pyrolysis of the Halon Replacement Molecule CF ₃ CHFCF ₃ ", 1999, <i>J. Phys. Chem. A</i> , Vol. 103, pp. 54-61			
	AQ	Joint Assessment of Commodity Chemicals No. 24, <i>Pentafluoroethane (HFC 125)</i> , (ECETOC) May 1994, pp. 14-20			
	AR	Kubota, Kazuo, "Current State and Measures Related to Chlorofluorocarbon Regulations, Part I", 1989, <i>Valqua Review</i> , Vol. 33, No. 2, pp. 1-8 (English translation - pp. 1-18)			
	AS	Malcolm, J.E., "Halogenated Extinguishing Agents", Part II Research at the Corps of Engineers' Laboratories, 1951, <i>NFPA Quarterly</i> , pp. 119-131			
	AT	Nelson, Thomas P., "Findings of the Chlorofluorocarbon Chemical Substitutes International Committee", April 1988, <i>U.S. Environmental Protection Agency, Air and Energy Engineering Research Laboratory</i> , EPA/600/9-88/009, pp. i-K6			
	AU	Smart, Bruce E., <i>Fluorinated Organic Molecules</i> , 1986, Molecular Structure and Energetics, Vol. 3, pp. 141, 152			
	AV	Tominaga, Takeshi, "Global and Technical Countermeasures Against Flon", 1989, <i>The Nikkan Kogyo Shinbun, Ltd.</i> , pp. 134-137, 156-163, 170-174 (English translation)			
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	AA	Index to Decisions and Annexes of the Parties to the Montreal Protocol, Helsinki Meeting, p. 79, 128, 241, 1989.			
	AB	Marshal Sittig, Chemical Process Monograph No. 22, Fluorinated Hydrocarbons and Polymers, 1966, page 13.			
	AC	McLinden, Ph.D, Didion, Ph.D, "Quest for Alternatives", Ashrae Journal, December 1987, pgs. 69-78.			
	AD	National Fire Protection Association, NFPA 2001 "Clean Agent Fire Extinguishing Systems" pps. 2001-1 and 2001-14			
	AE	Creitz, Journal of Research of the National Bureau of Standard, Vol. 65A, No. 4, pp. 389-396 (1961).			
	AF	Bryce, H.G.; Fire Extinguishing Agents, Industrial Aspects of Fluorine Chemistry, at pages 354-358, Vol. 5 of Hudlicky, Milos, Chemistry of Organic Fluorine Compounds (1962).			
	AG	R. Hirst and K. Booth, Measurement of Flame-Extinguishing Concentrations, Fire Technology, Vol. 13(4): 296-315 (1977).			
	AH	Final Report on Extinguishing Agents for the Period September 1, 1947 to June 30, 1950 Covering Research Conducted by Purdue Research Foundation and the Department of Chemistry, Purdue University, Contract W-44-009-engr 507, Army Engineers Research and Development Laboratories, Fort Belvoir.			
	AI	Research at the Corps of Engineers Laboratories, Halogenated Extinguishing Agents, NFPA Quarterly pgs. 118-131, (October, 1951).			
	AJ	Decision of the Technical Board of Appeal Regarding European Patent No. 0439579, November 14, 2001.			
	AK	Banks, Findings of the Chlorofluorocarbon Chemical Substitutes International Committee, Appendix A: summary Report A-1-A-5, 05/1987.			
	AL	Hogue, Cheryl, "Substitutes for Halons: No One Chemical Suitable", Intl. Environment Reporter, Nov. 21, 1990, pp. 493-495.			
	AM	Federal Register Vol. 58, No. 90, May 12, 1993, pp. 28136-28149 and 28176-28185.			
	AN	"FM-200® The New Solution for Fire Protection", June, 1993, 11 pages.			
	AO	Moore, P.E., "Fluorocarbon Halon Alternatives", Fire Safety Engineering, 1997, 3 pages.			
	AP	Hampson, Roger D., "The Success of FM-200®", Fire Safety Engineering, Vol. 2, No. 1, 1995, pgs. 21-23.			
	AQ	"Kiddie FM-200® Fire Suppression Systems", May 1994, 2 pages			
	AR	"Real-Scale Halon Replacement Testing," CFC/Halon News, March 1996, one page			
	AS	FM-200® Waterless Fire Protection for Marine Applications," 2003, 8 pages			
	AT				
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OTHER REFERENCES, CONT. (including Author, Title, Date, Pertinent Pages, Etc.)					
	AA	Burkland, Robert E., "When It Comes to Fire Protection - Speed Counts," Automotive Industry Agenda, March 2002, one page			
	AB	Mike Bennett, "Halon Replacement for Aviation Systems," International CFC and Halon Alternatives Conference, September 29 through October 1, 1992, Washington, D.C., pages 667-672			
	AC	Thornton, Al, "FM-200, A Unique Fire Fighting Agent," 1997 Taipei International Conference on Ozone Layer Protection, December 10, 1997, 10 pages			
	AD	The Appeal Decision in invalidation action for Patent No. 2580075, 10 pages (translation)			
	AE	International Fire Protection, "Great Lakes Chemical Corporation - Company Profile," An MDM Publication, Issue 4, Nov/Dec 2000, 4 pages			
	AF	http://www.e1.greatlakes.com/wfp/product/jsp/articles.jsp "Airports and Satellite Installations Protected by FM-200®," "Healthcare Facilities Protected by FM-200® Waterless Fire Protection Systems," "Museums and Cultural Landmarks protected by FM-200®," and "Casino Properties Protected by FM-200®."			
	AG	Nimitz, et al., "Halocarbons as Halon-Replacements: Technology Review and Initiation," New Mexico Engineering Research Institute, University of New Mexico, Final Report, March 1991, 141 pages			
	AH	"A Review of the Toxic and Asphyxiating Hazards of Clean Agent Replacements for Halon 1301," A Report by the Halon Alternatives Group, February 1995, 22 pages			
	AI	Hart-Winchester, "A Burning Issue: What Products Will Replace Halon 1301?" The Computer Operations Manager, March/April 1995, pages 13-18			
	AJ	Maranghides, et al., "Discharge System Modifications: Real Scale Halon 1301 Replacement Testing," Halon Options Technical Working Conference, Albuquerque, New Mexico, May 7-9, 1996, 12 pages			
	AK	Ellis, "Pleasure Boat Fire Extinguisher Choices," Burgee 26, November 1996			
	AL	Scientific Assessment of Stratospheric Ozone: 1989, Vol. 1, sponsored by the United Nations Environmental Program; Chap. 4, "Halocarbon Ozone Depletion and Global Warming Potentials", pps. 401-466			
	AM	Fire Protection Handbook 14 th Ed.; Nat'l Fire Protection Assoc., Boston; Sec. 13/Chap.4, pps. 13-20 to 13-26; 2001			
	AN	Clean Agent Fire Extinguishing Systems; Nat'l Fire Protection Assoc., pps. 2001-1 and 2001-14; 2001			
	AO	Fukaya +; "Fire Extinguishing Ability of Perfluoroalkylamines and....", Journal of Fluorine Chemistry, 2000, pps. 143-146			
	AP	Burns +; "Fluorine Compounds in Anaesthesia", 1982, Vol. 37, pps. 278-284			
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